

Appendix table 4-51.

R&D performed by majority-owned U.S. affiliates of foreign companies in the United States, by NAICS industry of affiliate: 1997 and 1998

Industry/sector	NAICS code	1997	1998
Millions of current U.S. dollars			
Total		17,216	22,073
Manufacturing	31–33	14,270	18,256
Food manufacturing	311	239	225
Printing and related support activities	323	34	42
Petroleum and coal products manufacturing	324	272	478
Chemical manufacturing	325	6,754	7,193
Basic chemicals	3251	617	580
Pharmaceuticals	3254	5,304	5,773
Other	325 minus (3251, 3254)	833	840
Plastics and rubber products manufacturing	326	331	350
Nonmetallic mineral product manufacturing	327	214	160
Primary metal manufacturing	331	60	66
Fabricated metal product manufacturing	332	203	184
Machinery manufacturing	333	721	725
Agriculture, construction, and mining machinery	3331	103	86
Industrial machinery	3332	83	80
Other	333 minus (3331, 3332)	535	559
Computer and electronic product manufacturing	334	3,413	4,509
Computer and peripheral equipment	3341	120	290
Communications equipment	3342	2,243	3,115
Semiconductor and other electronic components	3344	586	641
Other	334 minus (3341, 3342, 3344)	464	463
Electrical equipment, appliance, and component manufacturing	335	781	898
Transportation equipment manufacturing	336	641	2,678
Motor vehicles, bodies and trailers, and parts	3361, 3362, 3363	500	2,503
Other	336 minus (3361, 3362, 3363)	141	175
Other manufacturing	31–33 minus (311, 323–327, 331–336)	607	748
Wholesale trade	42	D	D
Information	51	260	332
Publishing industries	511	D	D
Motion picture and sound recording industries	512	5	1
Broadcasting and telecommunications	513	7	D
Information services and data processing services	514	D	D
Finance and insurance (except depository institutions)	52	12	D
Professional, scientific, and technical services	54	597	685
Architectural, engineering, and related services	5413	12	20
Computer systems design and related services	5415	281	333
Management, scientific, and technical consulting	5416	—	—
Other	54 minus (5413, 5415, 5416)	303	330
All other industries		D	D
Millions of constant 1996 U.S. dollars			
Total		16,887	21,384
Manufacturing	31–33	13,997	17,686
Food manufacturing	311	234	218
Printing and related support activities	323	33	41
Petroleum and coal products manufacturing	324	267	463

See explanatory notes, if any, and SOURCE at end of table.

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R&D performed by majority-owned U.S. affiliates of foreign companies in the United States, by NAICS industry of affiliate: 1997 and 1998

Industry/sector	NAICS code	1997	1998
Millions of constant 1996 U.S. dollars (continued)			
Chemical manufacturing	325	6,625	6,969
Basic chemicals	3251	605	562
Pharmaceuticals	3254	5,203	5,593
Other	325 minus (3251, 3254)	817	814
Plastics and rubber products manufacturing	326	325	339
Nonmetallic mineral product manufacturing	327	210	155
Primary metal manufacturing	331	59	64
Fabricated metal product manufacturing	332	199	178
Machinery manufacturing	333	707	702
Agriculture, construction, and mining machinery	3331	101	83
Industrial machinery	3332	81	78
Other	333 minus (3331, 3332)	525	542
Computer and electronic product manufacturing	334	3,348	4,368
Computer and peripheral equipment	3341	118	281
Communications equipment	3342	2,200	3,018
Semiconductor and other electronic components	3344	575	621
Other	334 minus (3341, 3342, 3344)	455	449
Electrical equipment, appliance, and component manufacturing	335	766	870
Transportation equipment manufacturing	336	629	2,594
Motor vehicles, bodies and trailers, and parts	3361, 3362, 3363	490	2,425
Other	336 minus (3361, 3362, 3363)	138	170
Other manufacturing	31–33 minus (311, 323–327, 331–336)	595	725
Wholesale trade	42	D	D
Information	51	255	322
Publishing industries	511	D	D
Motion picture and sound recording industries	512	5	1
Broadcasting and telecommunications	513	7	D
Information services and data processing services	514	D	D
Finance and insurance (except depository institutions)	52	12	D
Professional, scientific, and technical services	54	586	664
Architectural, engineering, and related services	5413	12	19
Computer systems design and related services	5415	276	323
Management, scientific, and technical consulting	5416	—	—
Other	54 minus (5413, 5415, 5416)	297	320
All other industries		D	D

NAICS = North American Industry Classification System; D = withheld to avoid disclosing operations of individual companies; — = Less than \$500,000

NOTES: Data are for nonbank U.S. affiliates with more than 50 percent foreign ownership; 1998 estimates are preliminary. Data exclude R&D expenditures conducted for others under contract. Constant dollar figures were calculated using calendar year GDP deflators (1996 = 100).

SOURCE: U.S. Bureau of Economic Analysis, *Foreign Direct Investment in the United States: Operations of U.S. Affiliates of Foreign Companies* (Washington, DC, annual series).

See appendix table 4-1.